# EARTH SCIENCE
# Data and Services

## CRYOSPHERE *Data Set Reference Sheet*

| Physical Properties | Data Center | Selected Data Sets and Data Collections |
|---|---|---|
| | | *Complete data set listings available through each individual data center. For information about the Distributed Active Archive Centers (DAACs) visit, http://nasadaacs.eos.nasa.gov* |
| **Land Ice** *Ice sheet topography, ice sheet volume change, glacier change* | **ASF DAAC** http://www.asf.alaska.edu | • RAMP AMM-1 SAR Image Mosaic of Antarctica 125m resolution mosaic via ftp 25m resolution mosaic tiles on DVD (to NASA-approved investigators) |
| | **LP DAAC** http://lpdaac.usgs.gov | • ASTER Digital Elevation Model (AST14DEM) <br> • ASTER L1B Registered Radiance at the Sensor (AST_L1B) |
| | **NSIDC DAAC** http://nsidc.org/daac | • Greenland 5 km DEM, Ice Thickness, and Bedrock Elevation Grids <br> • Antarctic 5-km DEM from ERS-1 Altimetry <br> • Digital SAR Mosaic and Elevation Map of the Greenland Ice Sheet <br> • GEOSAT Radar Altimeter DEM Atlas of Antarctica North of 72.1 degrees South <br> • GLAS/ICESat L1B Global Elevation Data <br> • GLAS/ICESat L2 Global Antarctic and Greenland Ice Sheet Altimetry Data <br> • GLAS/ICESat L1B Global Waveform-based Range Corrections Data <br> • Radarsat Antarctic Mapping Project Digital Elevation Model Version 2 <br> • RAMP AMM-1 SAR Image Mosaic of Antarctica <br> • Antarctic Ice Velocity Data <br> • SEASAT and GEOSAT Altimetry Data for the Antarctic and Greenland Ice Sheets <br> • Program for Arctic Regional Climate Assessment (PARCA) Data <br> • Images of Antarctic Ice Shelves <br> • Elevation Change of the Southern Greenland Ice Sheet from 1978-88 <br> • DISP Yearly Satellite Photographic Mosaics of Greenland 1962-1963 <br> • When the Weather is Uggianaqtuq: Inuit Observations of Environmental Change |
| | **PO. DAAC** http://podaac.jpl.nasa.gov | • BYU Daily Browse Images of QuikSCAT Sigma-0 Measurements <br> • BYU NSCAT-Derived Sea-Ice Extent |
| | **LaRC DAAC** http://eosweb.larc.nasa.gov | • Multi-angle Imaging SpectroRadiometer (MISR) Level 1B2 Terrain Data, Level 2 Land Surface Parameters, and Level 3 Component Global Land Surface (daily, monthly, quarterly, and yearly) Products <br> • International Satellite Cloud Climatology Project (ISCCP) D1, D2, and ICESNOW Data Products |
| **Sea Ice** *Extent, concentration, motion, temperature* | **NSIDC DAAC** http://nsidc.org/daac | • Bootstrap Sea Ice Concentrations from Nimbus-7 SMMR and DMSP SSM/I <br> • Sea Ice Concentrations from Nimbus-7 SMMR and DMSP SSM/I Passive Microwave Data <br> • DMSP SSM/I Daily and Monthly Polar Gridded Sea Ice Concentrations <br> • Near Real-Time SSM/I EASE-Grid Daily Global Ice Concentration and Snow Extent <br> • Near Real-Time DMSP SSM/I Daily Polar Gridded Sea Ice Concentrations <br> • Sea Ice Trends and Climatologies from SMMR and SSM/I |

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| **Sea Ice**<br>*Continued* | **NSIDC DAAC**<br>*Continued* | • AVHRR 1-km Level 1b Polar Data Set and AVHRR Polar Pathfinder Twice-Daily 1.25, 5, and 25 km EASE-Grid Composites<br>• GLAS/ICESat L2 Sea Ice Altimetry Data<br>• AMSR-E/Aqua Daily L3 6.25, 12.5, and 25 km Sea Ice Products [Brightness Temperature (all resolutions), Sea Ice Concentration (12.5 and 25 km), Snow Depth (12.5 km), and Sea Ice Temperature (6.25 km)]<br>• Polar Pathfinder Daily 25 km EASE-Grid Sea Ice Motion Vectors<br>• Polar Pathfinder Sampler: AVHRR, SMMR-SSM/I, and TOVS Samples and Combined Time Series<br>• MODIS Sea Ice Extent Daily L3 Global 1km EASE-Grid Products |
| | **ASF DAAC**<br>http://www.asf.alaska.edu | • SAR image data sets<br>• ERS 1 Ice Motion Vectors<br>• Radarsat-1 (1996-ongoing) and ERS-1 (1991-93) Geophysical Processing System Sea Ice Products |
| | **LaRC DAAC**<br>http://eosweb.larc.nasa.gov | • ISCCP D1, D2, and ICESNOW Data Products<br>• MISR Level 1B2 Ellipsoid Data<br>• First ISCCP Regional Experiment (FIRE) data sets |
| | **PO.DAAC**<br>http://podaac.jpl.nasa.gov | • BYU Daily Browse Images of QuikSCAT Sigma-0 Measurements<br>• BYU Daily Browse Images of SeaWinds Sigma-0 Measurements<br>• BYU High Resolution Images of Seasat Sigma-0 Measurements<br>• BYU High Resolution Images of ERS Sigma0 Measurements |
| **Snow Cover**<br>*Extent, water equivalent, depth* | **NSIDC DAAC**<br>http://nsidc.org/daac | • AMSR-E/Aqua Daily, 5-day, and Monthly L3 Global Snow Water Equivalent EASE-Grids<br>• CLPX-Airborne: Airborne GPS Bistatic Radar<br>• CLPX-Ground: Snow Measurements Data<br>• CLPX-Satellite: MODIS Radiances, Reflectances, Snow Cover and Related Grids<br>• DMSP-F8 SSM/I Pathfinder Land Surface Products<br>• Historical Soviet Daily Snow Depth Version 2 (HSDSD)<br>• MODIS L2 5-min Swath Snow Cover Extent Products<br>• MODIS L3 Daily and 8-Day Snow Cover Extent Products<br>• Near Real-Time SSM/I EASE-Grid Daily Global Ice Concentration and Snow Extent<br>• Nimbus-7 SMMR Derived Monthly Global Snow Cover and Snow Depth<br>• Northern Hemisphere EASE-Grid Weekly Snow Cover and Sea Ice Extent Version 2<br>• Program for Arctic Regional Climate Assessment (PARCA) Data Sets<br>• Snow Data Assimilation System (SNODAS) Data Products at NSIDC |
| | **LaRC DAAC**<br>http://eosweb.larc.nasa.gov | • MISR Level 1B2 Terrain Data<br>• ISCCP D1, D2, and ICESNOW Data Products |

**ASF DAAC** Alaska Satellite Facility DAAC

**LaRC DAAC** Langley Research Center DAAC

**LP DAAC** Land Processes DAAC

**NSIDC DAAC** National Snow and Ice Data Center DAAC

**PO. DAAC** Physical Oceanography DAAC